



NATIONAL INSTITUTE OF PUBLIC HEALTH

Šrobárova 48
Praha 10
100 42
Czech Republic

COMAC CAL Ltd
Těšínská 737/30
735 42 TĚRLICKO
Czech Republic

YOUR
REFERENCE:

IN YOUR
LETTER OF: 3 September 2015
OUR
REFERENCE: 3225/2015
EX 151148

EXECUTED BY: L. Nešpůrková, MSc, PhD
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DATE: 29 September 2015

Re: Expert assessment of flowmeters intended for contact with drinking water for compliance with the health safety requirements of Act No. 258/2000 and Regulation No. 409/2005 of the Ministry of Health of the Czech Republic.

In your letter of 3 September 2015, you ordered the safety assessment of the induction flowmeters intended for contact with drinking water for compliance with the health safety requirements of Act No. 258/2000 and Regulation No. 409/2005 of the Ministry of Health of the Czech Republic. The manufacturer of the induction flowmeters is your company COMAC CAL Ltd, Těšínská 737/30, 735 42 Těrlicko, Czech Republic. For the purpose of our assessment, you submitted the following documents:

- Technical data sheet for the flowmeters.
- Material composition of the products.
- Positive assessment of Teflon (polytetrafluoroethylene – PTFE) as suitable for use in contact with food issued by the Institute for Testing and Certification JSC, Zlín, Czech Republic, Attestation No. 472106347 of 27 May 2013.
- Positive assessment of Wagunit H 1005 rubber as suitable for use in contact with drinking water issued by the water hygiene laboratories of the National Institute of Public Health, Ref. No 2434/2014, on 3 July 2014.
- Attestations from other countries.

As indicated by the manufacturer, the products submitted are the induction flowmeters FLOW 38 with a display and FLOW 33 without a display in two designs: with a rubber or teflon lining, full stainless steel. The flowmeters are intended for use in measuring a wide range of liquids in various industries, including the water industry.

The assessment of the induction flowmeters intended for use in contact with drinking water was performed in accordance with Regulation No. 409/2005 of the Ministry of Health of the Czech Republic on the health safety requirements for products coming into contact with drinking water and for water treatment.

Conclusion:

From the documents and items submitted by the distributor, it follows that the materials assessed of which the flowmeters are made and which come into contact with drinking water are the Teflon

(PFTE) and rubber (Wagunit H 1005) measuring tube linings and stainless steel electrodes DIN 1.4404 – AISI 316 L. The flowmeter AISI 316 L stainless steel outer jacket does not come into contact with drinking water.

The Teflon (PTFE) lining was assessed as suitable for use in contact with food by the laboratories of the Institute for Testing and Certification JSC, Zlín, Czech Republic – Test report No. 472106347 of 27 May 2013.

Wagunit H 1005 rubber was assessed as suitable for use in permanent contact with drinking water by the water hygiene laboratories of the National Institute of Public Health in report ref. No 2434/2014 of 3 July 2014.

The assessment of stainless steel is based on Article 9, para. 1 a) of Regulation No. 409/2005 of the Ministry of Health laying down that the following types of corrosion resistant steel (stainless steel) comply with the requirements for the production of metal products coming into direct contact with water: 1.4401, 1.4404, 1.4571, 1.4521, 1.4462, 1.4301, 1.4307, 1.4510, 1.4520, and 1.4539 and do not require the extraction test to be performed. The stainless steel type tested by our laboratory complies with the requirements for the permanent contact with drinking water.

Conclusion:

Based on the documents submitted and the above mentioned assessment, it can be concluded that the **electromagnetic flowmeters FLOW 38 with a display and FLOW 33 without a display in two designs: with a rubber or PTFE lining**, manufactured and distributed by the COMAC CAL company Ltd, Těrlicko, Czech Republic, intended to come into contact with drinking water **comply with the health safety requirements** for products intended to come into contact with drinking water laid down by Act 258/2000, as last amended, and Regulation No. 409/2005 of the Ministry of Health of the Czech Republic, as last amended, and that there are no objections **to the use of the above-mentioned products in permanent contact with drinking water.**

Note:

This expert opinion only applies to the above-mentioned flowmeters and the conclusions drawn from the assessment can only be generalized to other products of the same type, if they are fully identical to the analysed flowmeters in terms of the composition and properties.



Helena Kazmarová, MD

Head of the Centre for Health and the Environment

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